



Helideck Pressure/Flow & Foam Tests



Flameskill now offers a service to test the flow and pressure rates of helideck monitors. In order to enable our clients to meet CAP 437, Helideck Fire Fighting Equipment requirements, we are now able to provide a Monitor Performance service, utilising our calibrated digital flow testing unit.

CAP 437, Helideck Fire Fighting requirements, establishes the Helideck 'D' Rating, and stipulates the requirements regarding provision of equipment, extinguishing media, personnel, training and emergency procedures for offshore helidecks on installations and vessels.

As offshore platforms age, and equipment is replaced, repaired and modified, it may be that there is no independent verification that the performance criteria of CAP 437 is being met. Our Test Report and supporting Flow Performance Charts will provide evidence that the equipment continues to be fit for purpose.

On establishing that the Monitors and Nozzles are functioning correctly, and at balanced flow rates, Foam Tests may be completed as required.

- Helideck 'D' Rating
- Minimum requirements of produced foam
- Minimum duration of application
- Induction type and ratio
- Foam stocks
- Consideration of the weather



Example,

Calculation of Application Rate:

Helideck 'D' Rating, 22.2 meter helideck

Application rate = $6.0 \times \pi r^2$ ($6.0 \times 3.142 \times 11.1 \times 11.1$) = 2322 litres per minute

Given the remote location of helidecks the overall capacity of the foam system should exceed that necessary for initial extinction of any fire. Five minutes discharge capacity is generally considered by the CAA to be reasonable

Calculation of Minimum Operational Foam Stocks

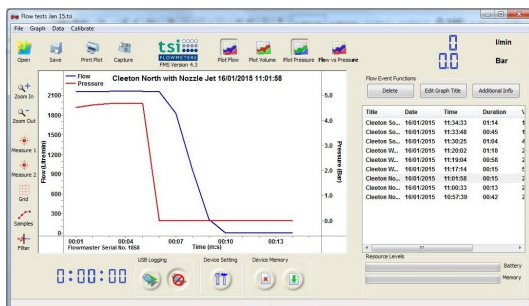
Using the 22.2 meter example as shown above, a 1% foam solution discharged over five minutes at the minimum application rate will require $2322 \times 1\% \times 5 = 116$ litres of foam concentrate. A 3% foam solution discharge over 5 minutes at the minimum application rate will require $2322 \times 3\% \times 5 + 348$ litres of foam concentrate.



What we can offer?

Flameskill offers a service where we test the flow and pressure rates at the monitor outlet, to make sure you are producing the required flow rates from you Helideck 'D' Rating. Our custom made flow and pressure meter records the measurement points in the integral data logger for the creation of reports.

- Calculate minimum produced foam requirements from Helideck 'D' Rating
- Calculate minimum foam stock requirements
- Flow and Pressure Rate without Monitor Nozzle
- Flow and Pressure Rate with Monitor Nozzle
- Check induction method
- Take foam samples for analysis
- Full and detailed report, including graphs of flow and pressure readings, foam test results and any recommendations



Having trouble with your foam induction

The Flameskill helideck self-inducing foam monitor nozzle has been developed specifically to meet CAA requirements for Offshore Class 'D' Rated Helidecks, requiring a flow rate of 2325 L/Min at 7 bar. Suitable for 1%, 3% and 6% foam concentrates, which must be specified at time of order. All nozzles are individually tested and calibrated at our factory before shipment. Contact us for details.

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